**PERIODIC TABLE TRENDS 2016**

(Read Nelson pp 104 – 117)

1.a) Who was Dmitri Mendeleev?  
  
b) What was his contribution to chemistry?  
  
c) Name the 5 properties of elements he used.

d) What property did Mendeleev use to organize the first periodic table?

2. State the ***modern periodic law***. (p 108)

3.a) On the **first** periodic table on the reverse, colour and label each of the following:

* colour noble gases blue
* colour halogens green
* colour hydrogen red
* colour alkali metals purple

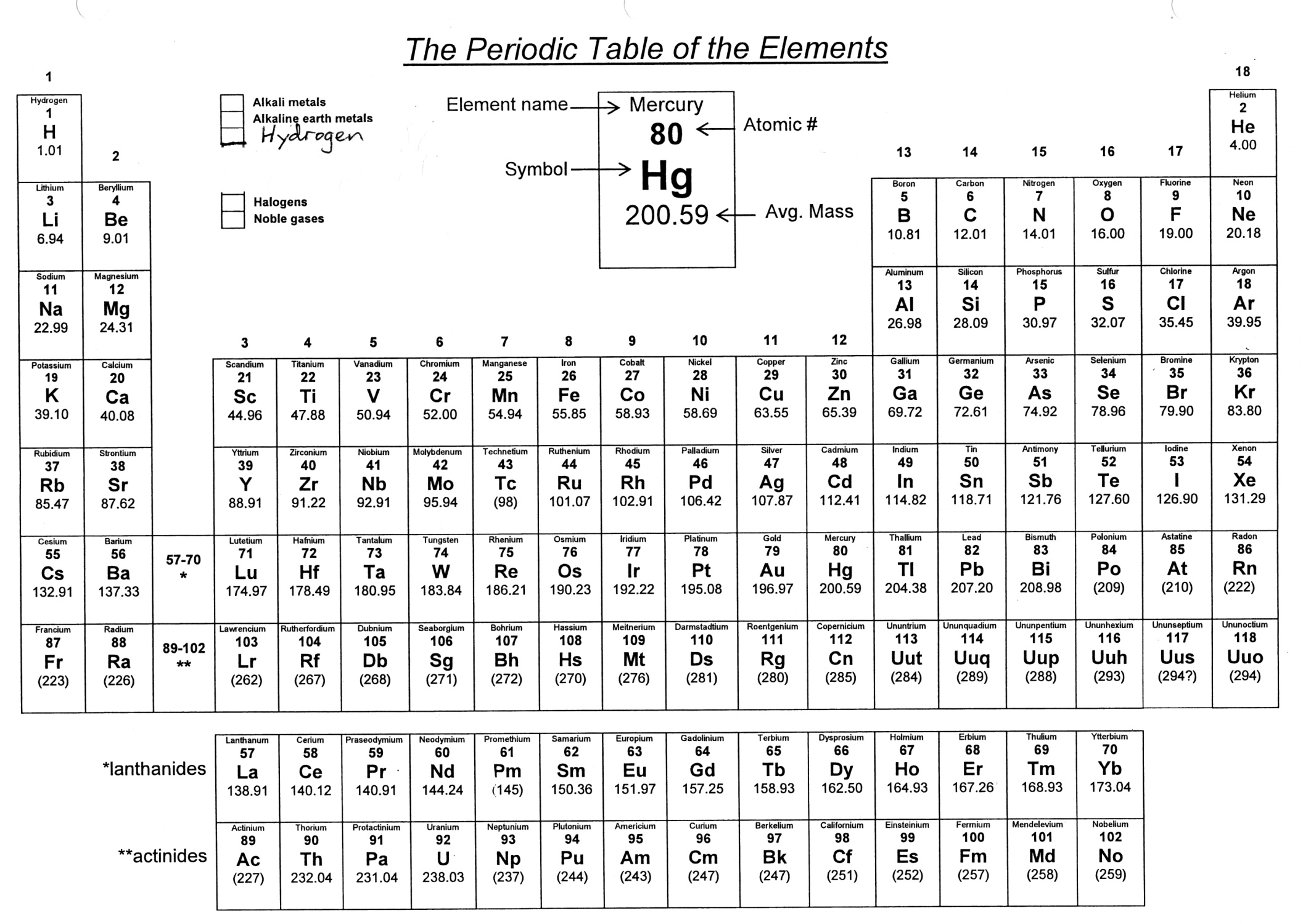
- colour alkali earth metals brown

b) Complete the following chart about the **groups** on the periodic table.

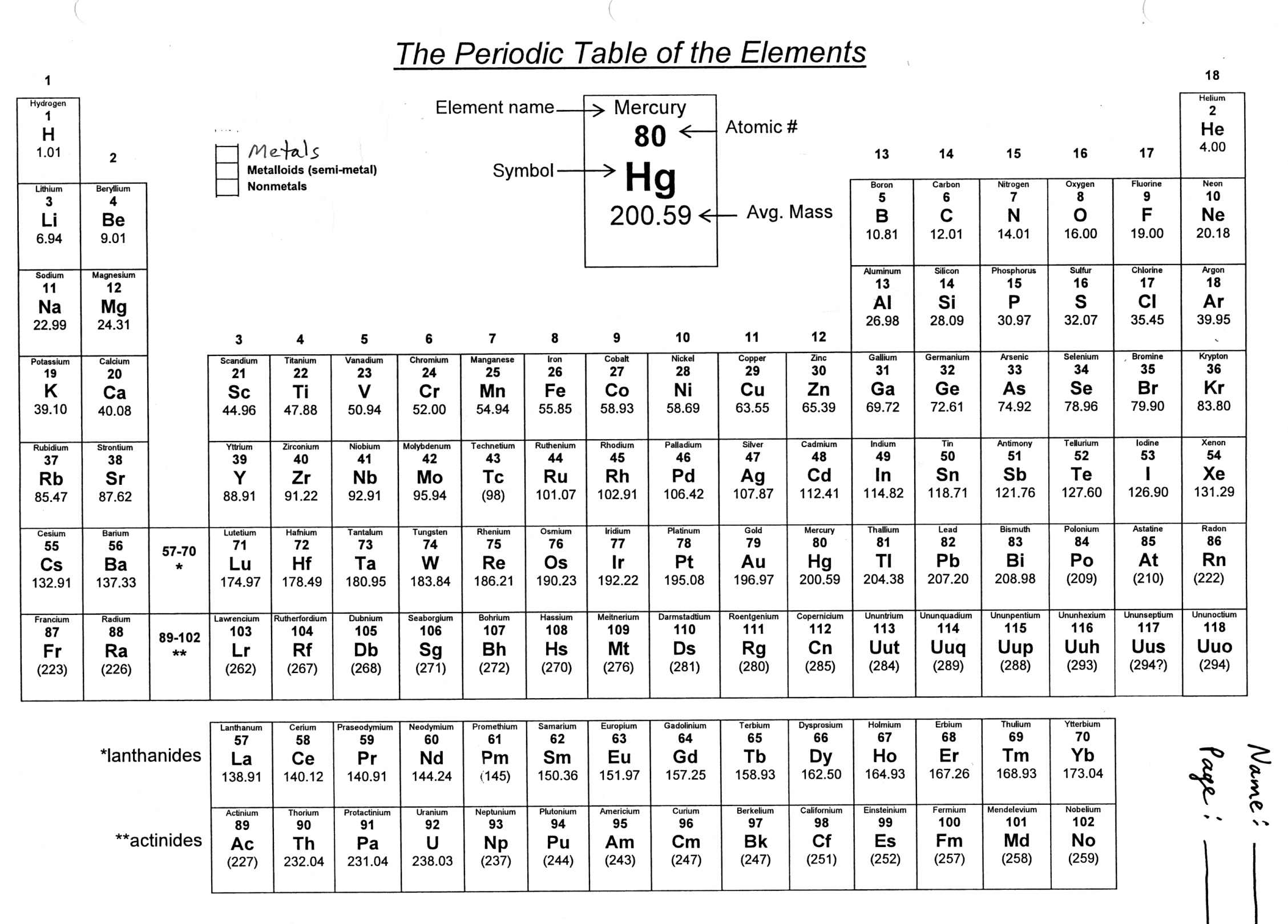
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| --- | --- | --- | --- |
| **GROUP** | **LOCATION ON PERIODIC TABLE** | **PROPERTIES - REACTIVITY** | **EXAMPLE AND/OR SPECIAL FEATURE** |
| METALS  P 117 |  |  |  |
| METALLOIDS  P 113 |  |  |  |
| HYDROGEN  P 112 |  |  |  |
| ALKALI METALS  P 111 |  |  |  |
| HALOGENS  P 111 |  |  |  |
| NOBLE GASES  P 110 |  |  |  |

4. On the **second** periodic table on the reverse:

* draw the **step line** between the metals and non-metals (in the middle of the metalloids)
* colour the metals green
* colour the metalloids yellow
* colour ALL the non-metals including the noble gases and hydrogen blue



Question # 3



Question # 4